Approved For Release 2006/11/08 : CIA-RDP78B04747A000700040036-5

TOP SECRET

PRIORITY

P 170203Z
FM NPIC
[redacted]

1967 AUG 17 02 54Z

25X1

OUT62876

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN

Declass Review by NGA

1

[redacted]

25X1

ZEM
T O P S E C R E T TTTTT [redacted] CITE NPIC 1533,

25X1

SECTION 1 OF 2
SUBJECT: CAMERA INFORMATION FOR MISSION 1043-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
CAMERA NUMBERS	200	201	----	----
FOCAL LENGTHS(MM)	610.410	610.430	FWD54.900 AFT55.000	FWD54.950 AFT55.000
FILTER (WRATTEN NO)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.200	.150	----	----
EXPOSURE (SEC)	1/100	1/100	----	----
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	195	194	----	----

B. S/I UNITS		STELLAR	INDEX
FOCAL LENGTH (MM)	PART 1	83.9102	38.3423
	PART 2	84.0053	38.3374
FILTER (WRATTEN NO.)		NONE	21
APERTURE		F1.8	F4.5
EXPOSURE (SEC)		1.0	1/500
FILM		3401	3400
RESOLUTION (L/MM)	PART 1	----	71
	PART 2	----	73
UNIT NUMBER	PART 1	D107/135/135	
	PART 2	D112/143/139	

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	.004	.002	.0	.0	.0	.001	.003
AFT UNIT	.001	.0	.0	.0	.0	.001	.003

B. HORIZON CAMERAS (MM)	FWD PORT	FWD STAR	AFT PORT	AFT STAR
RADIAL 10 DEGREES	.010	.010	.0	.010
20 DEGREES	.050	.040	.020	.030
TANGENTIAL MAX VECTOR	.025	.010	.030	.010

4. CAMERA ANGLES

		DEG	MIN
A. ANGLE BETWEEN PAN CAMERAS		29	42.60
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	14	7.5
	FWD PORT	15	10.2
	AFT STAR	15	31.2
	AFT PORT	14	47.2
C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1	89	54.0
	PART 2	89	57.7

DISTRIBUTION 67

Cy No.	Office	Ack
1	HRS	
	GS	
	SEC BR	
	TDS	
	CSD	
	IFD	
	PD	
	PSD	
	PSD-ICB	
3 4 5	TID	
	IAD	
	PAG	
	DIAXX-4	
	SPAD	
	NSA-LO	
	DIA-AP	

Advance copy, unedited

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GROUP 1
Excluded from automatic downgrading and declassification

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5. TIMING MARKS
FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
7	.3388	.0306	5	.0861	.0078	1 THRU 103

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D	7	23	11	35	1229	30
2D	8	00	37	32	1061	77
6D	8	06	47	53	1762	108
7D	8	08	12	09	1436	84
8D	8	09	39	18	1272	99
9AE	8	10	48	42	46	47
9D1	8	11	09	38	1302	35
9D2	8	11	11	53	1437	46
9D3	8	11	14	27	1591	114
13D1	8	17	23	44	2016	131
13D2	8	17	27	16	2228	83
14D	8	18	55	25	2124	69
16D	8	21	43	14	1410	28
19D	9	02	02	57	820	43
21D	9	05	12	56	1531	22
22D1	9	06	42	30	1384	33
22D2	9	06	46	21	1616	136
24D	9	09	38	51	1162	64
25D1	9	11	09	31	1194	172
25D2	9	11	15	06	1529	136
25D3	9	11	25	06	2129	139
26D	9	12	58	40	2357	168
29D	9	17	28	27	2287	70
30D1	9	18	44	35	1455	30
30D2	9	18	54	27	2047	1.16
30D3	9	19	05	44	2725	55
34D	10	00	35	33	912	140
36D	10	03	36	15	954	105
37D1	10	05	10	29	1193	79
37D2	10	05	15	38	1503	30
38D1	10	06	39	22	1134	42
38D2	10	06	42	50	1341	85
39D1	10	08	05	41	914	52
39D2	10	08	11	55	1289	164
40D	10	09	37	41	1009	53
41D1	10	11	10	35	1192	191
41D2	10	11	15	58	1515	164
42D	10	12	44	31	1436	124
46D	10	18	55	12	2097	70
47D	10	20	15	32	1517	22
52D	11	03	41	23	1263	99
53D1	11	05	13	28	1420	34
53D2	11	05	16	32	1604	79
55D1	11	08	09	46	1172	37
55D2	11	08	13	29	1395	41
56D	11	09	39	52	1224	106

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57D	11	11	16	07	1557	166
58D1	11	12	44	51	33	118
58D2	11	12	53	57	2029	71
61D	11	17	26	29	2187	145
68D	12	03	38	29	1126	34
69D	12	05	16	06	1647	98
70D	12	06	39	48	1255	82
71D1	12	08	10	36	1262	74
71D2	12	08	13	43	1449	35
72D1	12	09	35	59	1006	51
72D2	12	09	42	39	1407	106
73D	12	11	16	08	1602	165
74D1	12	12	44	54	1531	129
74D2	12	12	49	10	1787	96
77D	12	17	24	56	2147	134
79D	12	20	13	33	1471	44
82D	13	00	36	17	1047	167
83D	13	02	11	16	1349	53
84D1	13	03	31	58	796	34
84D2	13	03	42	38	1435	52
85D1	13	05	13	43	1537	65
85D2	13	05	15	55	1668	132
86D	13	06	43	10	1506	52
87D1	13	08	12	07	1421	33
87D2	13	08	13	07	1481	45
88D1	13	09	39	01	1238	75
88D2	13	09	41	17	1374	120
89D1	13	11	12	38	1461	79
89D2	13	11	25	46	2249	80
90D	13	12	44	33	1580	112
95D	13	20	14	17	1592	94
100D	14	03	41	05	1431	107
101D	14	05	12	52	1605	62
102D1	14	06	34	54	1133	112
102D2	14	06	38	38	1356	111
102D3	14	06	42	02	1560	79
103D1	14	08	06	16	1161	125
103D2	14	08	11	26	1471	155

NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY. ADD 12 SECONDS TO OBTAIN START TIMES OF AFT UNIT.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
1	522302.809	78668.4514	----
8	26517.119	33353.6704	.002
16	71355.997	78192.5448	.004
24	112802.486	33239.0303	.004
32	157752.031	78188.5712	.004
40	199256.011	33292.5472	.004
47	238757.137	72793.6691	.004
56	285731.539	33368.0661	.005
63	325157.307	72793.8296	.005
72	372096.041	33332.5580	.006
79	411546.844	72783.3561	.005
88	458473.495	33310.0010	.006
95	497914.460	72750.9607	.005
104	7999.332	33306.7380	.006

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

GP-1

900

T O P S E C R E T -END OF MESSAGE-

S/C NOTE: ALSO PASSED [redacted]

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